Drosophila	C. elegans	D. Melanogasta D. Melanogasta D. Melanogasta D. Melanogasta	Homo sapiens Homo sapiens Homo sapiens Homo sapiens Homo sapiens	Homo sapiens Homo sapiens Homo sapiens Homo sapiens Homo sapiens Mus muscilus	
GHROPSHHTQSG-	swe g t r gdrhyvqaf-	EVYCROPTEYEGNROENKWPDSR- TVFHSOLGVNDYDGERCAYKSWNGD- PVYS-GECAIGFWGORGEYKEIDNT- ILYN-GEGALGFWGPROEYKEIDGS-	NPSRYLÖKÖDPGFTGARGTENVPMKVNPSRYLÖKÖPNEFTGDRGDNYVMASFQLSÖKÖPNGFRGORGLEKLPLRLQLSÖKÖPVGYTGDRÖQDANVNFSHKHÖRÖKEGYÖVRÖDQ-FLPKTD	KYAĞNĞVGYİĞERĞOYRDLKWW- KPAÇVÇHSGYVĞARĞEHADLLAV- TPSĞVĞDEGYİĞARĞERVDLFYL- AVTĞKĞQQEYFĞERĞEKSMKTH- APSĞIĞHPGYHĞERĞHGLSLPVE- QNYĞRĞEVGYTĞVRĞEHFFLTVH- QNIĞRĞFTGYTĞVRĞEHFFLTSY-	(G)
PGYRYLFAĞSP-LTRLRĞQRKQPĞKLFTVRKRQEFLDEVNINSLĞQĞPKĞHRĞPSHHTQSG-	IEKLKEAKŒKDYĞHHNATĞHVEVIFREDRVSAVVPSĞHĞPQGWEĞTRŒDRHYVQAF-		. i i i i i	KYA	(S)
ığorkopğklftvrkro	/ĜHHNATĜHVEVIFRED	DRSASGIPĞNFDYĞFHNGTĞRMIPDIN ETEIQMLPĞSEAYNTSFĞLNGGHĞFQHPMVNN NITFPTYKĞPETFDAWYĞLNDAHĞFAVKIADL NVTFPIFAĞPPTYVAWYĞLNDGTĞFTVKIHNE	TGTSHLVKGAEKEKT-FGVNGGEGFMVKDLS TGTSHLVKGAEKEKT-FGVNGGEGFMVKDLS SWSCHARKGNETAKS-YGVNGGVGYYIEGIN SWSCHARKGNETAKS-YGVNGGVGYYIEGIN ERSEHFKPGRDKDLA-YGLNDGEGFVIETLTG MPTDHEEPEGPSHKS-FGLNGGLGYVIETLTG	SVRNSDSEĞPLSHDG-YĞLHDGVĞMYIEALD—AVVSHFNDÇPDSHTQ-FĞFH-GTĞRFLVQED—KRKGHFSRÇPKQYKH-YĞIK-GRĞRFVVAEQ—RNRKKKNPĞNAEFQN-FĞIH-GEĞKYIEHLE—GLĞKKRDPĞLRKYKD-FĞIH-GEĞKYVKEIR—VAQVSITKĞSSDMNG-YĞIH-GQĞIYLVDMS—VALKFSHPĞLEDHNS-YĞIN-GAĞAFHHELK—	ලෝ (ක)
PGYRYLFAĞSP-LTRLI	IEKLKEAKÇKD	DRSASGIPGNFDYGFHNGTGRMIPDIN- ETEIQMLPGSEAYNTSFGLNGGHGFQHPMYNN NITFPTYKGPETFDAWYGLNDAHGFAVKIADL NVTFPIFAGPPTYVAWYGLNDGTGFTVKIHNE	TGTSHLVKGAEKEKT-I TGTSHLVKGAEKEKT-I SWSGHARKGNETAKS-I SWSGHARKGNETAKS-I ERSEHFKPGRDKDLA-I MPTDHEEPGGPSHKS-I	SVRNSDSEĞPLSHDG- AVVSHFNDGPDSHTQ-I KRKGHFSRGPKQYKH-Y RNRKKKNPGNAEFQN-I GLGKKRDPGLRKYKD-I VAQVSITKGSSDMNG-Y	æ) ∷ #
Antagonists Argos Melanogasta	Agonists Lin-3	Vein Gurken Spitz Keren	NRG1_alpha NRG1_beta NRG2_alpha NRG2_beta NRG3_ NRG4	EGF TGF_alpha Betacellulin Amphiregulin HB-EGF Epiregulin Epigen	Conserved cysteine #:

Figure 1

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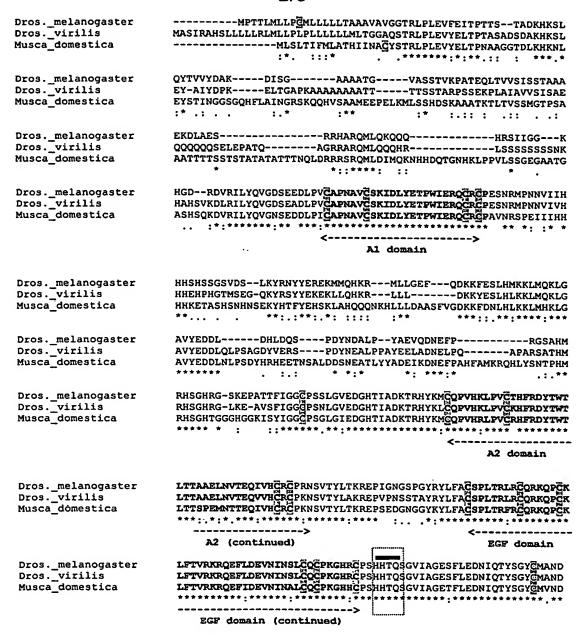


Figure 2

٠.

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Sequence ID #

9 က S œ 4 **TGTSHLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCKCQPGFTGARCTENVPMKV TGTSHLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASF** SWSGHARKCNETAKSYCVNGGVCYYIEGINQLS-CKCPVGYTGDRCQQFAMVNF GLGKKRDPCLRKYKDFCIH-GECKYVKELRAPS--CICHPGYHGERCHGLSLPVE 11 VAQVSITKCSSDMNGYCLH-GQCIYLVDMSQNY--CRCEVGYTGVRCEHFFLTVH 12 SWSGHARKCNETAKSYCVNGGVCYYIEGINQLS—CKCPNGFFGQRCLEKLPLRL KRKGHFSRCPKQYKHYCIK-GRCRFVVAEQTPS—CVCDEGYIGARCERVDLFYL 9 SVRNSDSECPLSHDGYCLHDGVCMYIEALDKYA—CNCVVGYIGERCQYRDLKWW 7 ERSEHFKPCRDKDLAYCLNDGECFVIETLTGSHK-HCRCKEGYQGVRCDQFLPKTD AVVSHFNDCPDSHTQFCFH-GTCRFLVQEDKPA—CVCHSGYVGARCEHADLLAV RNRKKKNPCNAEFQNFCIH-GECKYIEHLEAVT-CKCQQEYFGERCGEKSMKTH MPTDHEEPCGPSHKSFCLNGGLCYVIPTIP-SP-FCRCVENYTGARCEEVFLPGS VALKFSHPCLEDHNSYCIN-GACAFHHELKQAI—CRCFTGYTGQRCEHLTLTSY Amphiregulin NRG1_alpha VRG2_alpha NRG1_beta NRG2_beta Betacellulin TGF_alpha Epiregulin HB-EGF NRG3 NRG4 EGF

Figure 3

**			4/0				
B B	128	129	130	131	132	133	134
Sequence ID	14 15 73,	16 17 74,	18 75,	19	20 77, 132	21 78, 133	22 79,
<pre>< Exon B</pre>	TGTSHLVKCAEKEKTFCVNGGEGFWVKDLSNPSRYTCKCOPGFTGARGTENVPMKVQ TGTSHLVKCAEKEKTFCVNGGEGFWYKDLSNPSRYLCKCPNEFTGDRCONYVVASFY	SWSGHARKONETAKSYCVNGGVOYYIEGINOLS POKOPNGFFGORCLEKLPLRLY SWSGHARKONETAKSYCVNGGVOYYIEGINOLS POKOPVGYTGDROOFAMVNFY SWSGHARKONETAKSYCVNGGVOYYIEGINOLS FOK*	HERSEHFKPORDKDLAVGLNDGEGEVIETLTGSHEKHOROKEGYQGVRODQ-FLPKTD	mptőhéépogpshkspolngglovíptíptíps <u>petet</u> grovenytgargebvflpgss mptőheépogpshkspolngglovíptípspetstor	SVRNSDSECPLSHDGYCLHDGVCMYIEALDKYACNGVVGYIGERCOYRDLKWWE	TAVVSHENDOPDSHTOFOPH-GTORFLVOEDKPALL-CVCHSGYVGARCEHADLLAVV	KRKGHESROPKOYKHYCIK-GRORFVVAEOTPS-1-CVGDEGYIGARGERVDLFYLR.
HUMAN	NRG1_alpha NRG1_beta Translated genomic locus	NRG2_alpha NRG2_beta Translated genomic locus	NRG3 Translated genomic locus	NRG4 Translated genomic locus	EGF Translated genomic locus	TGF_alpha Translated genomic locus	Betacellulin Translated genomic locus

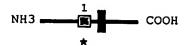
Figure 4

Amphiregulin Translated genomic locus	RNRKKKNPONABFONFOTH-GECKYTEHLEAVT-F-OKGOOEYFGERGGEKSMKTHS	23	23 80, 135
HB-EGF	GÜGKKRDPOLRKYKDFOLH-GECKYVKELRAPSEE CICHPGYHGERCHGLSLPVEN	24	24
Translated genomic locus	GLGKKRDPOLRKYKDFOLH-GECKYVKELRAPSEE CM*		81, 136
Epiregulin	VAQVSITKOSSDWNGYOTH#GOCIYIVDMSONY###CRGEVGYTGVRCEHFFLTVHQ	25	25
Translated genomic locus		82,	82, 137
Epigen(Mouse)	VALKESHPOEEDHNSYGIN-GACAEHHEIKOAIT-FICRGETGYTGORGEHLTLISYA	26	26
Trans. mouse genomic locus	VALKESHPOEEDHNSYGIN-GACAEHHEIKOAIT-CR*	83,	83, 138
Trans. human genomic locus	VIALKESHLGEEDHNSYGIN-GACAEHHEIKAT-CR*	84,	84, 139

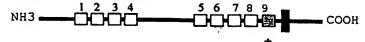
Figure 4 (continued)

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i) TGF-alpha



ii) Epidermal Growth Factor



iii) Notch 1

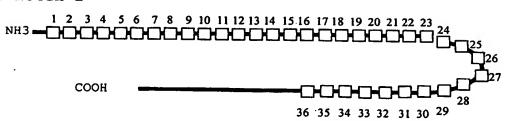
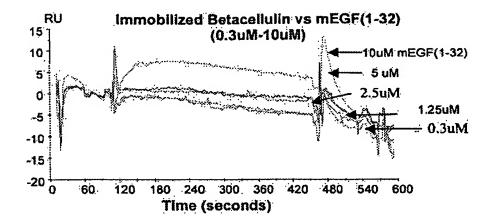


Figure 5A

i) TGF alpha EGF DOMAIN NUMBER 1. EGF_47_82 *	Sequence ID # SEQUENCESEQUENCE
ii) EPIDERMAL GRO	WITH DROWN
EGF DOMAIN NUMBER	Sequence ID #
1. EGF_318_354	
2. EGF 360 395	CALMENTES TEGCKNIP GSYXCTCPVGFWHPPGKRC 28
3. EGF_401_436	CHRISTO STREET S
4. EGF_439-476	SSSEDNGGES OVENERS ASME OF REMOVED BY SE
5. EGF_745_780	GDYOTNEGG THEFERKER THEFER GPANESCREGENKASDEKING 31
6. EGF_835_868	CORVERGE COS MYAROUSES EDANGUENKO EDENGUENO 32
7. EGF_874_910	COME=VINOSPASSKEINIUS==GENVERESUE=FX0GDEDHO 33 COME=VINOSPASSKEINIUS==GENVERESUE=FX0GDEDHO 34
8. EGF_916_951	COLG MISCONNE GINID GENEROLGICAGE FOR STREET
9. EGF_976_1012	EBLSHDS: GLEHDGVCMYATEAEDRYACNCVVG-YIGER-C 35
iii) Notch1	Sequence ID #
EGF DOMAIN NUMBER 1. EGF 24 57	SEQUENCE
2. EGF 63 98	CSQPGETCLNGGKCEAANGTEACVCG-GAFVGPRC 36
3. EGF 106 138	Pimula de la companya del companya del companya de la companya de
4. EGF 144 175	ARGENIGETED HITMLE DYKERCP PEWSEKSC 38
5. EGF_182_215	NS NEGNICCO THE TENS VIOLENCE AND STREET AND
	SCESE GONGGEGRETGDV THECACE RGFTGONC 41
7. EGF_261_292	PEGNN - CONCONCY DOWN - PYNGEGE BEWIEGOYC 42
0. EGE_233_332 g	SUBNEVENDEDNIGHERNTHGGXNEVEVENDRIGHER A 2
9. EGF_339_370	AS ARCEHGATCH DRVA SEMCECE HGRIGLLC 44
10. EGF_376_409	155 THE THE THE THE TENER TO TH
11. EGF_416_449	GANPCEHAGKCINTLGSFECQCL-QGYTGPRC 46
12. EGF_456_487 13. EGF_494_525	WE
14. EGF 532 563	NS SPECIFINGROLD WITH TERMOSED FIGHT 48 NS PROMINENT DERN TENVOLUE FENT 49
_ _ _ _	3DBDD CHARACTER DCRN 49
<u>-</u>	
	ORGRERAGIO DRING ANTIGROL KOWIG PNC 51 NO. SEC DSCHOL DAID GEORGE SMC 52
	2.6 N.G.I.N.G.G.G
19. EGF_720_750	NS NEGVIGACED SIN GVKCDCD-PGWSGTNC 54
20. EGF_757_788	SESTED TO THE OWN GOTTE OF THE PROPERTY OF THE
21. EGF_795_826	SHOMETERS TO THE TOTAL OF THE PROPERTY OF THE
22. EGF_833_867	SPERNGGEGR-OSED-YES-ESCUCETAGAKGOTC 57
20. 201-200	-WILLIAM DESCRIPTION SECTION S
25. EGF_950_981	PNPCHNGGSCT-DGINTAFCDCL-PGFRGTFC 59
	RS-DD
27. EGF_1026 1057	
28. EGF_1064_1095	SDS - SPEKNEGKEW-OT- HITOKRESEP-GEWIGING 62 SDS - SPEKNEGKEW-OT- HITOKRESEP-SEWIGING 63
23. EGF 1102 1143 (SENCARUKUGVIVAKI.COHGGI.CV-DAGNPUUCDCO-XCVMCCVC
30. EGF_1150_1181	SECONCATCT DYLC SCOOCY AGYHGVNC 65
31. EGF_1188_1219	SEGUNGATOR DYLE GYSCKCV-AGYHGVNC 65 LECTOR DEPT. TYKESEP-KETOGVHC 66
00. DOL_100_1000 P	AND ADDROUGH ON THE VERY CONTRACT OF THE PROPERTY OF THE PROPE
33. EGF_1272_1305	NEGRACION-COR-VNDEHGEGRAGHEGRAC 68
34. EGF 1312 1346 (CKGKPCKNCGTCA-VASN-TARCETCKCP-NCFFCATC 60
35. EGF_1353_1384	Description of the content of the co
36. EGF_1392_1426	GSDRGENGGTGTSGPRSPTQLGG-GPPTGPSG 70 GGNPGYNOGTGEPTSESPF

Figure 5B



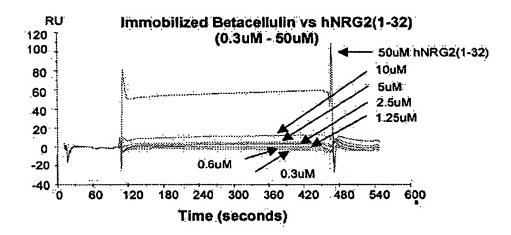


Figure 6